

Air Force Weather Agency (AFWA)/System Operations Center. FAC 1444

CATCODE: 141XX4

OPR: AFWA/A5/A8

OCR: 1st Weather Group, 2nd Weather Group

1.1. Description. AFWA is a Field Operating Agency, reporting to United States Air Force Director of Weather, Deputy Chief of Staff Air and Space Operations (USAF/A3O-W). Covering the globe and space, the Air Force Weather Agency is the Air Force's global weather production center. The center produces and delivers terrestrial and space weather products and services to Air Force and Army warfighters, Unified Commands, National Programs, and the National Command Authorities. The Agency supplies weather products, training tools, and fields equipment to Air Force Operational Weather Squadrons and Combat Weather Flights and provides 24-hour technical assistance on all standard weather systems and equipment.

1.2. Requirements Determination. AFWA and the Global Weather Operations Center was established to enhance the effectiveness of Air Force, Army, special operations, joint, and combined combat and BW team operations through investigation, integration and development, test and evaluation, and exploitation and training for new and existing tactical weather systems and processes. Obtain further information through AFWA/A5/8.

1.3. Scope Determination. Space is needed for a command section, the AFWA A- Staff, and the 1st and 2nd Weather Groups. The facility also requires areas for a Sensitive Compartmented Information Facility; weather production facility for making broadcasts and audio/video products for the Armed Forces Network; 24/7 AFWA operations center; a worldwide technical help desk; and computer operations facility.

1.4. Dimensions. See [Table 1.1](#) below.

1.5. Design Considerations.

1.5.1. Facility requires DSN Class A worldwide/land line connections, NIPRNet and SIPRNet drops, and cablevision or satellite television capability to receive and obtain NWS broadcasts. In addition, the facility is linked to the Joint Worldwide Intelligence Communications System (JWICS) that provides classified data to joint warfighters worldwide.

1.5.2. Requires 220 VAC/115 VAC, 60 Hz service with backup power and UPS. This facility is serviced by two 3,000 kVA and one 2,500 kVA transformer yielding a total capacity of 8,500 kVA. It is also serviced by a 2,250 kVA UPS. Back-up generator power is provided by base generators.

1.5.3. Locate to satisfy explosives safety standards in relationship to explosives storage and operating facilities. Noise attenuation measures may be required if facility is located in the close proximity to the runway(s) or industrial area(s). The requirement for emergency power is determined under AFI 32-1063.

Table 1.1. AFWA and AFWA Operations Center General Spatial Requirements.

Function	Net Building Area	
	m ²	ft ²
Interior Areas		
General Office space ^{1,2,3}	6,083	65,479
Contractor Space ^{1,2,3}	1,995	21,475
Operations Space	213	2,288
Computer Room Space	1,578	16,989
SCIF ^{2,3}	939	10,111
Mechanical ²	939	10,105
Electrical Switchgear	320	3,446
Storage/Dock ^{2,3}	604	6,506
Conference room ^{2,3}	312	3,360
Snack Bar ^{2,3}	97	1,046
Training Classroom	97	1,046
Break Room ^{2,3}	97	697
Atrium ^{2,3}	482	5,192
Auditorium ^{2,3}	416	4,475

Function	Net Building Area	
	m ²	ft ²
<p>NOTES:</p> <p>1. See Facility Class 6 of this Manual, Tables 1.2 and 1.2.1</p> <p>2. See Facility Class 6 of this Manual, Tables 1.3 and 1.4</p> <p>3. User Justified.</p>		